

ACC NR: AP6018058 (N) SOURCE CODE: UR/0020/66/168/003/0569/0572

AUTHOR: Fel'zenbaum, A. I.; Shapiro, N. B.

ORG: Maritime Hydrophysical Institute, Academy of Sciences, UkrSSR (Morskoy  
gidrofizicheskiy institut Akademii nauk UkrSSR)

TITLE: Study of stabilized wind circulation in a homogeneous ocean

SOURCE: AN SSSR. Doklady, v. 168, no. 3, 1966, 569-572

TOPIC TAGS: wind, wind velocity, atmospheric circulation, ocean current

ABSTRACT: In this article the author examines the problem of studying circulation excited in a rectangular ocean of constant depth by a system of zonal winds. The mathematical treatment of the problem revealed that the integral circulation in the ocean arises not only in the presence of a nonuniform wind but also with a uniform wind. This is the result of the "finer" consideration of bottom friction in the aggregate with a latitudinal change of the coriolis parameter in the equation derived by the authors in comparison with previously proposed equations. When there is a transverse irregularity of the zonal wind the integral circulation is generally intensified. An interesting feature was the weakening of western intensification north and south of the equator. The maximal values of the vertical current velocity are reached at the western shore and amount to 85 cm/sec. At the equator

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UDC: 551.465

ACC NR: AP6018058

there is a negligible total westerly flow(up to 1 cm/sec) in the wind system under consideration. As a rule, the current velocities at individual levels differ both in direction and in magnitude from the average vertical current velocities. This pertains particularly to the ocean surface and to the equatorial region. The vertical velocity component does not change sign with depth or along the meridian. In the region of the equator there is an intense uplift of water, whereas to the north and south there is an alternation of zones of the rise and descent of waters. Calculations for a nonuniform wind demonstrated that abatement of the wind leads to a pronounced intensification of an easterly flow at the equator, as a result of which a powerful and more isolated (from the intertrade counter current) deep counter current of the Cromwell and Lomonosov type currents is formed. It is interesting that an increase of the transverse dimension of the ocean leads, other conditions being equal, to a weakening of the western intensification of currents and to a simultaneous intensification of zonal flows. The paper was presented by Academician L. I. Sedov 28 July 65. The authors thank G. I. Marchuk and L. N. Gutman for indicating the method of numerical solution of the problem and a number of interesting comments during discussion of the results of the calculations. Orig. art. has: 3 figures and 6 formulas.

SUB CODE: 08/ SUBM DATE: 26Jul65/ ORIG REF: 007/ OTH REF: 004

Card 2/2

ACC NR: AP6011432

(N)

SOURCE CODE: UR/0020/66/167/004/0807/0810

AUTHOR: Fe'zenbaum, A. I.

ORG: Naval Hydrophysical Institute AN UkrSSR (Morskoy gidrofizicheskiy institut  
AN UkrSSR)

TITLE: Oceanic circulation and the Ekman problem

SOURCE: AN SSSR. Doklady, v. 167, no. 4, 1966, 807-810

TOPIC TAGS: ocean current, ocean dynamics, current vertical structure

ABSTRACT: This paper presents a theory of oceanic circulation motivated by the desire to combine the advantages of the classical Ekman ocean dynamics with the recent approaches of H. Stommel (Trans. Am. Geoph. Un. 29, no. 2, 1948) and W. Munk (J. Meteor., 7, no. 2, 1950) yielding the westward current intensification effect. The author presents a system of equations permitting to gain the basic features of the Stommel-Munk approach with the added insight into the classical effects related to the vertical structure of the currents, plus such new effects as those of currents behaviour at the equator. With arbitrary boundaries, the solution requires a numerical approach with the aid of a computer. However, certain special cases (e.g. rectangular boundaries with a constant depth and a special wind function) admit analytical solutions. Orig. art. has 1 figure and 16 formulas.

SUB CODE: 08 / SUBM DATE: 26 Ju165/ ORIG REF: 004/ OTH REF: 004  
Card 1/1 UDC: 551.465

FEL'ZENBAUM, V.G.; RABINOV, I.L., nauchnyy redaktor; TYUTYUNIK, M.S.,  
redaktor; DVORNIKOVA, N.I., tekhnicheskiy redaktor.

[Use of hot water in the manufacture of asbestos cement products]  
Primenenie teplovoi vody v proizvodstve asbestotsementnykh izdelii.  
Moskva, Gos. izd-vo lit-ry po stroitel'nym materialam, 1953. 41 p.  
(Asbestos cement) (MIRA 7:11)

FEL'ZENBAUM, V.G.

SHEYNBLYUM, I.I.: FEL'ZENBAUM, V.G.: RABINOV, I.I., kandidat tekhnicheskikh nauk; RABINOVICH, P.A., redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor.

[Following the example of leading factories; the work practice of Novorossiisk slate] Po primeru peredovykh zavodov; iz opyta raboty novorossiiskikh shifernikov. Moskva, Gos. izd-vo lit-ry po stroit, materialam, 1954. 16 p. (MLRA 8:8)

1. Nauchnyye sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta asbestotsamentnykh izdeliy "VNIIasbestotsament" MPSM SSSR. (for Sheynblyum, Fel'zenbaum)  
(Asbestos cement)

VEL'ZENBAUM, V.

[G]

Production of asbestos cement products in foreign factories.  
Stroi.mat., izdel.i konstr. 2 no.1:34-36 Ja '56. (MLRA 9:5)

1. Starshiy nauchnyy sotrudnik VNIIAsbestsementa.  
(Europe, Eastern--Asbestos cement)

RAYZENBAUM, V. G.

Various types of sheet-forming machines and the capacity of new  
asbestos slate plants. Stroi. mat. 4 no.12:8-10 D '58.  
(MIRA 11:12)

1. Nachal'nik otdela tekhniko-ekonomiceskikh issledovaniy Nauchno-  
issledovatel'skogo instituta Azbesttsementa.  
(Asbestos)

FEL'ZENBAUM, V.G.; YEFIMOVA, E.P.

Urgent objectives in the expansion of the soft roofing  
materials industry. Stroi.mat. 6 No.4:3-6 Ap '60.  
(MIRA 13:6)

(Roofing)

FEL'ZENBAUM, Vadim Grigor'yevich; SOKOLOV, P.N., prof., nauchnyy red.  
TYUTUNIK, M.S., red.izd-vs; ML'KINA, E.M., tekhn.red.

[Asbestos cement industry abroad] Asbestotsementnaia promyshlen-  
nost' za rubezhom. Moskva, Gos.izd-vs, lit-ry po stroit..  
arkhit. i stroit.materialam, 1960. 142 p.

(MIRA 14;2)

(Asbestos cement)

FEL'ZENBAUM, V.G., inzh.

Characteristics of long-term planning for the manufacture of interchangeable kinds of products (after the example of building materials). Trudy NIIAsbesttsementa no.14:103-116 '62.  
(MIRA 16:9)

DAVYDOVA, F.L.; LEYTUSH, T.L.; FEL'ZENBAUM, V.G.; ZAVELEV, V.G.

One and a half times more pipes from the same raw material.  
Stroi. mat. 9 no.10:5-7 O '63. (MIRA 16:11)

FEL'ZENBAUM, V.G., kand. ekonom. nauk; DAVYDOVA, F.I., inzh.; LEYTUSH,  
T.L., inzh.; ZAVELEV, V.G., inzh.

Promote fully the production and use of nonmetal pipes.  
Stroi. mat. 10 no. 5:10-11 My '64. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut asbesta, slyudy,  
asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva  
predpriyatiy slyudyanoy promyshlennosti (for Leytush, Zavelov).

AGEYEV, V.M., kand. ekon. nauk; REKITAR, Ya.A.; USTIMENKO, V.V., ekonomist; MEL'NIKOV, A.A., kand. ekon. nauk; LUKASHEVICH, V.A., ekonomist; FEL'ZENBAUM, V.G., kand. ekon. nauk; SERGEYEVA, K.A., inzh.; CHUDNOVSKIY, D.M., nauchn. red.

[Method of calculating the economic efficiency of technological progress in the building materials and structural elements industry; using the example of several branches and types of production] Metody rascheta ekonomiceskoi effektivnosti tekhnicheskogo progressa v promyshlennosti stroitel'nykh materialov i konstruktsii (na primere nekotorykh otрасlei i vidov proizvodstv). Moskva, Stroizdat, 1965. 157 p.  
(MIRA 18:4)

1. Moscow. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva.

FEL'ZENRAUM, V.G., kand. ekonom. nauk

Electronic computers in economic planning. Stroi. mat. 11 no.5:  
4-6 My '65. (MIRA 18:9)

1. Zamestitel' direktora TSentral'nogo nauchno-issledovatel'skogo  
instituta informatsii i tekhniko-ekonomiceskikh issledovanii  
promyshlennosti stroitel'nykh materialov.

Fel'zer Yu.

FEL'ZER, Yu.

Using grab buckets for cleaning garage mud tanks. Avt. transp. 35  
no.12:9-10 D '57. (MIRA 11:1)  
(Garages) (Refuse and refuse disposal)

FEL'ZER, Yu. S.

Obshchestvennyye i obsluzhivayushchiye uchrezhdeniya v mnogoetazhnykh zhilykh domakh (Common and service facilities in many storied dwellings, by) D. B. Khazanov, R. M. Smolenskaya, Yu. S. Fel'zer (i dr.) Moskva, Gos. Izd-vo Literatury po Stroitel'stvu i Arkhitekturé, 1953-  
v. (v.-p.) illus., diagrs., tables.  
At head of title: Akademiya Arkhitektury SSSR, Moscow.  
Lib. has: v. 1

N/5  
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FELZER, YU. S.

BAZAROV, V. M. Arkh. i DOMBROVSKIY, A. A. Kano. Ekonom. Nauk., SMOLENSKAYA, R. M. Arkh.,  
FELZER, YU. S. Inzh.

Nauchno-issledovatel'skiy institut arkhitektury i promyshlennyykh s'oruzheniy  
akademii arkhitektury SSSR

Razmeshcheniye v mnogoetazhnykh zhilykh domakh moskvy obshchestvennykh uchrezhdeniy i  
obsluzhivayushchikh pomeshcheniy

Page 74

SO: Collections of Annotations of Scientific Research Work on Construction, completed  
in 1950.  
Moscow, 1951

FEL'ZER, YU. S.

FEL'ZER, YU. S. Inzh. i KHAZANOV, D. B. Kand. Arkh.

Nauchno-issledovatel'skiy institut arkhitektury obshchestvennykh i promyshlennyykh  
sooruzheniy Akademii arkhitekhtury SSSR

Osnovnyye polozheniya po proektirovaniyu garazhnykh stoyanok, Vstroyennykh v  
mnogoetazhnyye ,hilyye doma moskvy

Page 76

SO: Collection of Annotations of Scientific Research Work on Construction, com-  
pleted in 1950, Moscow, 1951

FEMENIC, B., Dr.; SALAJ, B., Dr.

Observations on the equilibrium and acoustic apparatus in patients treated with streptomycin. Rad Jugosl. akad. znan., odjel med. 3: 189-196 1953.

1. Iz Otorinolaringolske klinike Medicinskog fakulteta  
Svecucilista u Zagrebu. Predstojnik: akademik prof. dr. B. Gusic.  
(STREPTOMYCIN, inj. eff.  
cochleovestibular system (Ser))  
(VESTIBULAR APPARATUS, diseases,  
cochleovestibular streptomycin lesions (Ser))  
(COCHLEA, diseases,  
same)

FEMENIC, B.

FEMENIC, B., LEMESIC, R.

New stereomicroscope for otological surgery. Radovi Med. fak.  
Vol. 3:289-292 1953.

1. Otorinolaringolska klinika Medicinskog fakulteta u Zagrebu  
(predstojnik akademik B.Gasic. Primljeno 29.I.1953)

(EAR, surg.

\*stereomicroscope)

(MICROSCOPY, appar. & instruments

\*stereomicroscope, in ear surg.)

FEMENIC, Branko, doc.dr.

Indications and results of fenestration in otosclerosis. Medicinski glasnik 9 no.2-3:77-79 Feb-Mar '55.

1. Otorinolaringologska klinika Medicinskog fakulteta Sve uclista  
u Zagrebu (predstojnik prof. dr B. Gusic)  
(FENESTRATION,  
indic. & results)

PENICIC, Branko, Doc. d-r

Further experiences with the treatment of hydrops of the labyrinth  
by drainage of endolymphatic into perilymphatic systems. Voj.san.  
pregl., Beogr. 12 no.3-4:149-151 Mar-Apr '55.

1. Otorinolaringolska klinika Medicinskog fakulteta u Zagrebu.  
(LABYRINTH, diseases)  
(MENIERE'S DISEASE, therapy,  
drainage)

FEJENIC, Branko, Dr.

Our contribution to the surgery of the labyrinth. Lijec.vjes.  
77 no.1-2:62-68 Jan-Feb.'55.

1. Iz Otorinolaringolske klinike Medicinskog fakulteta u Zagrebu.  
(FENESTRATION,  
modified technic(Ser))

GUSIC, Branimir, Prof. dr.; FEMENIC, Branislav, doc., dr.

Personal experience in tympanoplasty. Voj. san. pregl..  
Beogr. 13 no. 3-4:134-137 Mar-Apr 56.

1. Otorinolaringolska klinika Medicinskog fakulteta  
Sveucilista u Zagrebu.  
(EAR, MIDDLE, surg.  
tympanoplasty (Ser))

GUSIC, Branimir; FEMENIC, Branko; KRAJINA, Zvonimir

Recent views on patho-physiology of the respiratory mucosa.  
Radovi med. fak., Zagreb 7 no. 1:17-33 '59.  
(RESPIRATORY SYSTEM dis.)

FEMENIC, B.

Academician Professor Dr. Branimir Femenic. On 60th anniversary of his birth. Rad. med. fak. Zagreb 9, no. 2: 115-124 '61.

(BIOGRAPHIES)

GUSIC, Branimir, prof., dr; FEMENIC, Branko, prof., dr

Rehabilitation in conduction deafness by surgical means. Med. glas.  
15 no.12/12a:426-427 D '61.

1.Otorinolaringolska klinika Medicinskog fakulteta u Zagrebu (Pred-  
stojnik: prof. dr B. Gusic)

(DEAFNESS surg)

FEMENIC, Branko

Our experiences with fronto-ethmoidal injuries. Rad. med. fak.  
Zagreb 11 nc.3:265-269 '63.

GOSHIN, S.A.; LEBEL', S.M.; FEMENKO, V.V.

An automatic line has been introduced. Mashinostroitel' no.2:6-7  
F '61. (MIRA 14:2)

(Machinery, Automatic)

SZEMI, I.dr.,; PEMERVARI, E.,dr.,; SZABO, I.dr.

Intermittent INH therapy. Orv. hetil. 96 no.8:213-214 20 Feb 55.

1. Az Koranyi Tudobeteggyogyintezet es az Orszagos Tbc. Kutato  
Intezet Diagnosztikai Laboratoriumanak kozlemenye.

(TUBERCULOSIS, PULMONARY, therapy,

isoniazid, intermittent technic)

(NICOTINIC ACID ISOMERS, therapeutic use,

isoniazid in pulm. tuberc., intermittent technic)

FEMIN, S.

"The Theory of Dynamic Systems with a Continuous Spectrum," Dokl. AN SSSR,  
67, No.3, 1949

FEMINA, A.V.

Role of the vegetative nervous system in regulation of milk secretion.  
Fiziol.zh.SSSR 37 no.2:209-216 Mar-Apr 51. (CLML 21:1)

1. Department of Anatomy and Physiology, of Agricultural Animals,  
Kherson Agricultural Institute.

Fempl, S.

Fempl, S. Sur la limite supérieure de la différence de l'intégrale d'un produit et du produit des intégrales. Bull. Soc. Math. Phys. Serbie 1, 2: 27 (1949). (Serbian. Russian and French summaries)

The author gives a simplified proof of the mean-value theorem:

$$(b-a)^{-1} \int_a^b f(t)g(t)dt = (b-a)^{-1} \int_a^b f(t)dt \int_a^t g(t)dt$$

$$= \|f(t)\| \|g(t)\|,$$

where  $t_1$  and  $t_2$  are in  $[a, b]$ . This theorem was proved by Karamata and implies several older inequalities [Karamata, Acad. Serbe Sci. Publ. Inst. Math. 2, 131-145 (1948); these Rev. 10, 435]. The author also gives a geometrical interpretation.

R. P. Boas, Jr. (Providence, R. I.).

Source: Mathematical Reviews. 1950 Vol. 11 No. 2

Fempl Stanimir

Fempl, Stanimir. The area of an oblique circular cone:  
Hrvatsko Prirodoslovno Društvo, Glasnik Mat.-Fiz. Astr.  
Ser. II, 4, 127-134 (1949). (Croatian)  
The area in question is expressed in terms of an elliptic  
integral.

Source: Mathematical Reviews, Vol

12, no. 2

STANIMIR FEMPL

FEMAL S		3
	<p><u>Berolj, S.</u> Sur l'inégalité de Cauchy-Schwartz. Bull. Soc. Math. Phys. Serbie 2, nos. 1-2, 75-79 (1950). (Serbo-Croatian. French summary)</p>	

FEMPL. S.

Yugoslavia (430)

Science

Concerning the area of the truncated oblique cone with a circular base. p. 202.  
GLASNIK MATEMATICKO FIZICKI I ASTRONOMSKI, Vol. 5, no. 4-5, 1950.

East European Accessions List. Library of Congress, Vol. 1, no. 15,  
Dec. 1952.  
UNCLASSIFIED.

Fempl, Stanimir

Fempl, Stanimir. Hälterungsformel zur Mantelberechnung des schiefen Kreiskegels. Srpska Akad. Nauka. Zbornik Radova, Knj. 7, Matematički Institut, Knj. 1, 135-142 (1951). (Serbo-Croatian; German summary)

Approximation  
Geometry

Source: Mathematical Reviews,

Vol 13 No.3

Spine  
off

FEMPL, STANIMIR		
<p>Fempl, Stanimir. Über den Zentriwinkel der Abwicklung des Mantels einer schießen Kreiskegels. Hrvatsko Prirodoslovno Društvo. Glasnik Mat.-Fiz. Astr. Ser. II. 7, 30-35 (1952). (Serbo-Croatian. German summary)</p>		
Source: Mathematical Reviews.	Vol	13 No. 10
<i>✓</i>		
FEMPL, STANIMIR The Center Angle of the Development of a Sliced Circular Cone Covering		<i>✓</i>

FEMPL, Stanimir						
schlesier Kreisgebiet Mat. Krs. Astra Croatian summit		Über die Mannschaften spezieller Hrvatsko-Prijed. Drustvo. Glasnik ser. II, 9, 101-116 (1954). (Serbo- Kroatisch)		L-F/T		

*Fempi, Sezamik*

Penji, Stevanir. Généralisation d'une relation de Le-  
vitan. *Srpska Akad. Nauka Zb. Rad. #3, Mat. Inst.*  
*44-56 (1955). (Serbo-Croatian - French summary)*

The author studies the expression

$$L(k, \phi) = E(k, \pi/2)L(k, \phi) + E(k, \pi/2)F(k', \phi) - F(k, \pi/2)F(k', \phi),$$

where  $E$  and  $F$  are the elliptic integrals of the first and second kind and  $k$  and  $k'$  are complementary moduli. He expresses complete elliptic integral of the third kind in terms of Legendre's transformation formulas for a geometrical interpretation of  $L(k, \phi)$ .

*[Handwritten]*

*LEM  
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FEMPL, STANIMIR

2

Fempl, Stanimir. Sur une combinaison linéaire des intégrales elliptiques normales de première et seconde espèces. Srpska Akad. Nauka. Zb. Rad. 50, Mat. Inst. 5 (1956), 61-116. (Serbo-Croatian. French summary)

L'objet de ce travail est l'étude de l'expression

$$\Lambda(k, \psi) = FE(k, \psi) + EF(k', \psi) - FF'(k', \psi),$$

où  $F$  et  $E$  désignent les intégrales elliptiques normales, complètes, de première et seconde espèce de module  $k$ ,  $F(k', \psi)$  et  $E(k', \psi)$  les mêmes intégrales de module complémentaire  $k' = \sqrt{1 - k^2}$  et d'amplitude  $\psi$ . L'auteur établit le théorème de multiplication suivant. Toutes les fois que la suite des amplitudes  $\psi_i$  satisfait aux conditions

$$\cos \psi_{r+1} = \cos \psi_1 \cos \psi_r - \sin \psi_1 \sin \psi_r \sqrt{1 - k'^2 \sin^2 \psi_{r+1}}$$

on a

$$\Lambda(k, \psi_m) = m \Lambda(k, \psi_1) - F k'^2 \sin \psi_1 \sum_{i=1}^{m-1} \sin \psi_i \sin \psi_{i+1}$$

et inversement. On donne une suite d'applications de cette formule et d'interprétations géométriques (le cône elliptique).

M. Tomić (Beograd).

On the Linear Combination of Normal Elliptic  
Integrals of the First and Second Types.

Fenpl, S. Sur une réduction de l'intégrale elliptique  
normale complète de III espèce. Srpska Akad. Nauka.  
Zb. Rad. 55, Mat. Inst. 6 (1957), 73-76. (Serbo-Croa-  
tian. French summary)

By using the results of his previous paper [same Zb.  
50, Mat. Inst. 5 (1956) 61-116; MR 19, 739], the author  
derives the necessary conditions for the new reduction of  
the complete normal elliptic integral of the 3rd class only  
on the complete integrals of the 1st class with same  
module. The proof is based on the known Legendre's  
formula.

D. P. Rasskovic (Belgrade)

Smu

FEMPL, Stanimir (Beograd)

On certain sums of integral-cosines. Ves mat fiz Srb  
no.12:13-20 '60.

FEMPL, S.

On a connection between Legendre's functions. Publ Inst math  
SANU 1 (15):81-82 '61. [publ. '62].

FEMPL, S.

The nonanalytic functions whose deviation from analyzability is an analytic function. Glas prir mat SANU no.254:75-80 '63.

FEMPL, S. (Belgrad, Yugoslavia)

System of partial differential equations whose solution is  
reduced to the integration of a Clairaut equation. Dif. urav.  
1 no.5:698-700 My '65. (MIRA 18:7)

FEMYAK, A. N.

Min Education RSFSR. Moscow Oblast Pedagogical Inst.

FEMYAK, A. N.: "Psychological aspects of training and developing work on compositions with students in the fifth through seventh classes." Min Education RSFSR. Moscow Oblast Pedagogical Inst. Moscow, 1956.

(Dissertation for the Degree of Candidate in Pedagogical Sciences)

SO: Knizhnaya Letopis', No. 20, 1956

PEVZNER, B.L.; FEN', A.G.

Use of pneumoretroperitoneum. Vest.khir. no.7:34-38 '61.

(MIRA 15:1)

1. Iz urologicheskogo otdeleniya (nach. - B.L. Pevzner) Kiyevskogo okrughmogo voyennogo gospitalya.  
(PNEUMOPERITONEUM, ARTIFICIAL)

AUTHOR:

Fen, G. I.

53-64-4-5/11

TITLE:

Valence Semiconductors -Germanium and Silicon (Valentnyye poluprovodniki - germaniy i kremniy)

PERIODICAL:

Uspekhi Fizicheskikh Nauk, 1958, Vol. 64,  
Nr 4, pp. 733 - 779 (USSR)

ABSTRACT:

This is a translation from English from "Solid State Physics"-  
-Advances in Research and Applications; the exact reference  
is not given. It deals with the first part of this work con-  
sisting of three chapters (the elements of semiconductor theory,  
the properties of crystals, the electroconductivity). The  
second and last part was published in Uspekhi Fizicheskikh  
Nauk, Vol. 65, Nr 1, p 112; there can also be found a list of  
references. The translator is not mentioned. There are 12  
figures and 5 tables.

Card 1/1

L 02525-67 EWT(d)/EWT(m)/EWP(w)/EWP(k) IJP(c) EM

ACC NR: AT6020971

SOURCE CODE: UR/3207/65/000/002/0075/0083

AUTHOR: Shevlyakov, Yu. A. (Doctor of technical sciences, Professor);  
Fer', G. A.

ORG: Dnepropetrovsk University (Dnepropetrovskiy universitet)

34

B71

TITLE: Thermoelastic stresses in multilayer plates and bases

SOURCE: Gidroseromekhanika, no. 2, 1965, 75-83

TOPIC TAGS: thermoelasticity, stress analysis

ABSTRACT: The article considers the problem of the state of stress of a multilayer plate which is under conditions of plane deformation, and which consists of m layers which have different mechanical and thermophysical properties not dependent on the temperature. On the free surfaces of the first and last layer the temperature is given as a function of the coordinate  $x_k$  (steady state process) or as a function of the coordinate and the time (unsteady state process). The state of stress of a multilayer bundle on an elastic or rigid base can be obtained by infinitely increasing the thickness of the last layer,  $h_m \rightarrow \infty$ . After setting the initial conditions, the authors solve mathematically the problem of finding the thermoelastic stresses due to steady state

Card 1/2

L 02525-67

ACC NR: AT6020971

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temperature fields, and then those due to unsteady state temperature fields. Orig. art. has: 37 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 003

Card 2/2 egs

AUTHOR:

Fen, G. I.

53-65-1-4/1o

TITLE:

Valence Semiconductors - Germanium and Silicon (Valentnyye poluprovodniki - germaniy i kremniy)

PERIODICAL:

Uspekhi fizicheskikh nauk, 1958, Vol. 65, Nr 1, pp.111 - 132  
(USSR)

ABSTRACT:

This is the second part of a translation from the English language; the first part was published in Uspekhi fizicheskikh nauk, 1958, Vol. 65, Nr 4, p.733. This second and last part contains neither any information concerning the reference to the initial publication nor any information concerning the translator. The author was probably H. Y. Fan. There are 4 figures, 1 table, and 205 references, none of which are Soviet.

1. Semiconductors--Properties

Card 1/1

KRAVCHENKO, A.F.; FEN, G.Yu.

Galvanomagnetic and thermomagnetic phenomena in n-type GaAs.  
Fiz. tver. tela §.no.2:660-656 F '63. (MIRA 16:5)

1. Novosibirskiy elektrotekhnicheskiy institut.  
(Thermomagnetism) (Thermoelectricity) (Gallium arsenide)

FENC, P.

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Dr. E. Dienstbier.

(EYE, diseases,

ther., antibiotics, local application.)

(ANTIBIOTICS, therapeutic use,  
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eye dis., review (Cz))

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same)

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CATEGORY	:	Chemical Technology, Chemical Products and Their Uses. Part 2. Ceramics, Glass, Binding*	
ABS. JOUR.	:	RZKhim., No. 1 1960, No. 2004	
AUTHOR	:	Fencl, F.	
INST.	:	-	
TITLE	:	Ways for Intensifying Building Enterprises of the Cement and Lime Industry	
ORIG. PUB.	:	Stavivo, 1959, 37, No 5, 146-147	
ABSTRACT	:	No abstract	

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CARD: 1/1

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Dr Kl. Weber)  
(HYPERTENSION, therapy,  
\*dibenamine, eff. on blood pressure & skin temperature)  
(SYMPATHOLYTICS' therapeutic use,  
\*dibenamine in hypertension, eff. on blood pressure &  
skin temperature)  
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hypertension)

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hypertension)

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renal tubular necrosis caused by corrosive mercuric  
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(KIDNEY DISEASES, etiol. & pathogen.

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(KIDNEYS, blood supply

circ., mechanism of diurnal hemodynamic changes (Cz))

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diurnal hemodynamic changes, mechanism (Cz))

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(EMOTIONS, effects,

on hemodynamics of forearm (Cz))

EXCERPTA MEDICA Sec 18 Vol 3/6 Cardiovascular June 59

1273. Metabolic results of renal functional changes in cardiac failure Metabolické nasledky ledvinových funkčních změn pri srdeční nedostatečnosti. FENCL V. Ust. pro Chor. Obchu Krevního, Praha-Krc Cas. Lek. ces. 1958, 97/37 (1165-1170) Illus. 5

An increased tubular reabsorption of  $\text{Na}^+$  and water in cardiac failure is the basis of the collection of oedema fluid. At the same time an increased  $\text{Na}^+$  reabsorption leads automatically to an increased  $\text{K}^+$  excretion. The increased  $\text{K}^+$  excretion is still further increased by some associated effects. Collection of oedema fluid changes the intracellular structure in that the organism loses intracellular electrolytes. Results of it are secondary intracellular structural changes, functional changes and at the same time a disorder of the metabolism of proteins and of enzyme activity, which has its source of energy in the cells.

Mestan - Prague (XVIII, 6\*)

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(MUSCLES blood supply)

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(EXERTION eff.)

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(ACUTE RENAL FAILURE metab)  
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